



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

plicant's or agent's file reference Sg/scs 032615wo ternational application No. PCT/EP2003/013916 ternational Patent Classification (IPC) or F04B 27/04 pplicant 1. This international preliminary exa and is transmitted to the applicant	LEYBOLD VACUUM GMBH
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This report is also accomp amended and are the basis 70.16 and Section 607 of t	of sheets, including this cover sheet. panied by ANNEXES, i.e., sheets of the description, claims and/or drawings which for this report and/or sheets containing rectifications made before this Authority the Administrative Instructions under the PCT). a total of sheets.
IV Lack of unity of V Reasoned stater citations and ex VI Certain docume VII Certain defects	ent of opinion with regard to novelty, inventive step and industrial applicability finvention nent under Article 35(2) with regard to novelty, inventive step or industrial applica planations supporting such statement
Date of submission of the demand 05 June 2004 (05	.06.2004) Date of completion of this report 29 October 2004 (29.10.2004)
Name and mailing address of the IPBA	1.00



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International application No. PCT/EP2003/013916

I.	I. Basis of the report							
1. With regard to the elements of the international application:*								
the international application as originally filed								
	図	the desc	cription:					
		pages	1-18	, as originally filed				
l		pages		, filed with the demand				
		pages	, filed with the letter of					
	\boxtimes	the clai	ims:					
		pages	1-14	, as originally filed				
}		pages	, as amended (together with any stat	ement under Article 19				
		pages		, filed with the demand				
		pages	, filed with the letter of					
•	\boxtimes	the drav	wings:					
1	-	pages	1/5-5/5	, as originally filed				
į		pages		, filed with the demand				
		pages	, filed with the letter of					
l	\Box	he seque	ence listing part of the description:					
	· ·	pages		as originally filed				
		pages		, filed with the demand				
		pages	, filed with the letter of					
2.	2. With regard to the language, all the elements marked above were available or furnished to this Authority in the lar the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language							
}			guage of a translation furnished for the purposes of international search (under Rule 23.1(b)).					
		the lan	guage of publication of the international application (under Rule 48.3(b)).					
		the lan or 55.3	nguage of the translation furnished for the purposes of international preliminary examination 3).	(under Rule 55.2 and/				
3.	With	regard minary e	to any nucleotide and/or amino acid sequence disclosed in the international applicate examination was carried out on the basis of the sequence listing:	tion, the international				
		contair	ned in the international application in written form.					
	Щ	filed to	ogether with the international application in computer readable form.					
		furnish	ned subsequently to this Authority in written form.					
ł		furnish	ned subsequently to this Authority in computer readable form.					
			tatement that the subsequently furnished written sequence listing does not go beyond ational application as filed has been furnished.	the disclosure in the				
			atement that the information recorded in computer readable form is identical to the written urnished.	n sequence listing has				
4.		The an	nendments have resulted in the cancellation of:					
			the description, pages					
			the claims, Nos.					
			the drawings, sheets/fig					
5.		This rep	port has been established as if (some of) the amendments had not been made, since they have the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	been considered to go				
•	in th	icement i is report 10.17).	sheets which have been furnished to the receiving Office in response to an invitation under Ar t as "originally filed" and are not annexed to this report since they do not contain an	ticle 14 are referred to tendments (Rule 70.16				
••	** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.							
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ν,	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
٧.	citations and explanations supporting such statement
1	Citations and Oxpinion

Statement .	•		YES
Novelty (N)	Claims	13	
	Claims	1-12, 14	NO
Inventive step (IS)	Claims	13	YES
	Claims	1-12, 14	NO
Industrial applicability (IA)	— Claims	1-14	YES
			NO

Citations and explanations

Reference is made to the following documents:

D1: US-A-4 545 738 (YOUNG NIELS O) 8 October 1985

(1985-10-08)

D2: US-A-6 035 637 (BEALE WILLIAM T ET AL)

14 March 2000 (2000-03-14).

1. The present application does not comply with the requirements of PCT Article 33(1), because the subject matter of claim 1 is not novel within the meaning of PCT Article 33(2).

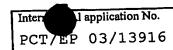
Document D1 discloses a

piston compressor comprising a piston which reciprocates in a cylinder and which, in a filling position, compresses gas in a cylinder compression chamber,

gas bearing nozzles for gas bearing of the piston which are arranged in the piston region,

a compressed gas reservoir which is connected to the gas bearing nozzles,

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a compressed gas supply line between the cylinder compression chamber and the compressed gas reservoir, and

an inlet valve which is provided in the course of the compressed gas supply line and is open in the filling position of the piston,

the inlet valve being formed by a cylinder wall opening and a piston wall opening which, in the filling position of the piston, are in mutually opposed positions and form an open valve and, in a non-filling position, are closed by the piston wall and the cylinder wall, respectively, and form a closed valve (see document D1 and the corresponding passages cited in the search report).

2. Document D2, considered independently of D2, also discloses a compressor in which the inlet valve is formed by a cylinder wall opening and a piston wall opening which, in the filling position of the piston, are in mutually opposed positions and form an open valve and, in a non-filling position, are closed by the piston wall and the cylinder wall, respectively, and form a closed valve (cf. D2 and the corresponding passages cited in the search report).

The subject matter of claim 1 is therefore also not novel in relation to document D2.

3. Dependent claims 2-12 and 14 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, meet the PCT requirements for novelty or inventive step.



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4.	The combination of features in dependent neither known from, nor suggested prior art.	by, the available